

AMENDMENTS TO THE CLAIMS

1-39. (Canceled)

40. (Currently Amended) A method for determining an electrotherapeutic drug effect, suitable for determining the effect of a new or known drug on the CNS system of a patient, comprising:

- a) providing;
 - i) a patient exhibiting an abnormal electroencephalogram; and
 - ii) a drug; and,
- b) converting said electroencephalogram to abnormal quantified neurophysiologic information, wherein said abnormal information comprises at least one multivariate outcome measurement
- c) selecting at least one patient administering [[the]] said drug to [[the]] said patient;[[,]]
- d) obtaining the said patient's post-administration follow-up neurophysiologic information; and[[,]]
- e) comparing said abnormal information with said follow-up information under conditions such that said multivariate measure is differentially changed.

~~analyzing the patient's post-administration neurophysiologic information to determine the effect of the drug on the CNS system of the patient.~~

41. (Currently Amended) A method according to claim 40, wherein said analyzing step includes comparing the patient's neurophysiologic information with neurophysiologic information obtained from uses a reference database population of individuals to produce a similarities profile for the patient.

42. (Currently Amended) A method according to claim 40 ~~[[41]]~~, wherein ~~[[the]]~~ said differentially changed multivariate outcome measurement similarities profile identifies an electrotherapeutic drug effect ~~is used to determine the effect of the drug.~~

43-49. (Canceled)